MONTANA CONVENTIONAL

ANNUAL REPORT

OF THE

OFFICE OF STATE FORESTER

TO THE GOVERNOR OF MONTANA HONORABLE FORREST H. ANDERSON

> For The Fiscal Year Ended June 30, 1971



Aug 17 .72

LETTER OF TRANSMITTAL

ITEM 2

The Honorable Forrest H. Anderson Governor State of Montana Helena, Montana 59601

Dear Governor Anderson:

In accordance with the requirements of Sections 82-4002, R.C.M. 1947, there is herewith transmitted to you the report of the State Forester covering the fiscal year ended June 30, 1970.

Major accomplishments during the year included:

- Organizing within the Department an "environmental team" approach
 to the management of State-owned forest lands, and making this
 team available to private forest lands under the Cooperative
 Forest Management program.
- Bringing to a total of 17, the counties enrolled in the Cooperative Rural Fire Protection program designed to provide adequate organized fire protection to State and privately owned forest and non-forested watersheds.
- Accepting the fire protection responsibilities of more than one million acres of forest lands formally protected by the Northern Montana Forestry Association.
- 4. Taking leadership in phases of forest management particularly related to the affect of forest management practices on environment--sponsorship of the Intermountain Forest Fire Symposium, participation in various activities of the Governor's Council on Natural Resources, working with the State Health Department on standards for slash disposal, educational programs carried on through the media of fairs, schools, and demonstrations.
- The installation of data processing equipment connected directly to the computers in Helena to increase the efficiency of the State Forester's Office work.
- Addition of 20 acres to the productivity capacity of the seedling tree nursery.

Major recommendations to help meet our goals included:

 Continue to expand the forestry programs as a feature in Rural Development by coordinating county activities related to forestry and rural fire control.



2. As a part of the overall forestry program emphasize and encourage development of local manufacturing industries to convert lumber, as a raw material, into completed forestry products ready for market in order to strengthen Montana's wood products manufacturing economy.

Respectfully submitted,

GARETH C. MOON
STATE FORESTER

October 14, 1971



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Gareth C. Moon, State Forester

STATE BOARD OF FORESTRY

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Arnold Bolle, School of Forestry 8-5-69 -- 7-1-73

Homer Bailey, Water Resources Board 7-29-71 -- 6-1-75 Corvallis, 59828

George Neff, Forest Protection Assns. 8-5-69 -- 7-1-73

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Mark Schoknecht, Lumber Manufacturers 7-29-71 -- 6-1-75 Upland's Shevlin Park, Libby 59923

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The major accomplishments during fiscal year 1971 in the

State Forestry Department, of course, is made up of many important

small accomplishments. All of these small accomplishments together

mean that State Forestry with the assistance of the legislature in

providing law changes and in funding, permitted the State Forestry

Department to begin bringing into balance a program of managing the

State Forest Lands--Montana's most important renewable natural

resource--for continued economic gain compatible with the maintenance

of a quality environment.



GENERAL:

The Office of State Forester operates chiefly under two sets of State statutes. Generally, the responsibilities of the State Forester for the management of State-owned forest lands are covered within title 81, R.C.M. 1947. The State Forester's responsibilities to privately owned forest lands are specified in the title 28, R.C.M. 1947.

Cooperation with the State Department of Institutions in operation of the Swan River Youth Forest Camp is provided in Section 80-1412.

Title 77, R.C.M. 1947 provides statutory guidance for participation of the State Forester in Civil Defense activities.

The aims and policies guiding the operation of the State Forester's

Office in administering the statutory requirements are contained in

several policy manuals prepared by the State Forester and approved by

both the State Board of Land Commissioners and the State Board of Forestry.

SPECIAL:

The Montana statutes cited above provide direction and permission for obtaining assistance and for furnishing assistance to and from various agencies, companies, and individuals. Written agreements provide guidance and control to the various programs.



FOREST MANAGEMENT PROGRAM:

In addition to the State statutes governing the operation of the Forest Management program, assistance is received from Federal sources under the Title IV of the Agricultural Act of 1956 for qualifying timber stand improvement work on State-owned Forest Lands.

By cooperating under provisions of the Cooperative Forest Management Act of 1950, federal funds assist in maintaining the State Forester's service forestry program to small private woodland owners, assist in financing the program through which help and advice is given processors of primary forest products, and also, by virtue of the existing Cooperative Forest Management agreement, federal funds are made available with which the State Forester participates in the Resource Conservation and Development program of Ravalli County.

Under Section 4, Clarke-McNary Act of June 7, 1924, as amended, federal assistance is provided for operation of the State Forester's tree nursery. FOREST AND RANGE FIRE PREVENTION PROGRAM:

Fire control on forested lands in Montana is governed by the Forest Fire Regulations promulgated by the State Forestry Board as provided in Section 28-105 (d). R.C.M. 19h7.

The fire program is part of a national system of wildland fire protection supported by the federal government under Section 2 of the Clarke-McNary Act of 1924.

Many written agreements exist between the State Forester and other state and federal agencies, counties, fire protective associations and rural districts as an outline of fire prevention and protection responsibilities.



OFFICE OF STATE FORESTER -- GO ALS

In meeting the responsibilities outlined in the statutes, the State Forester's goals are:

- To provide as rapidly as possible, adequate forest fire protection to 13 million acres of State and privately owned forest and watershed land within the State.
- 2. To conduct a planned management program on 491,000 acres of State forest lands which will provide a maximum income to the several State school funds on a sustained yield basis, while at the same time maintaining a quality environment.
- 3. To provide technical and practical advice to 15,000 private woodland owners in Montana concerning soil and forest conservation and the establishment and maintenance of windbreaks and forest areas.
- 4. To insure fire hazard reduction to the extent necessary to protect
 the property of others from fires which may start in slash created
 by cutting forest products.
- 5. To independently and through cooperation with the federal government and private forest landowners, adopt and carry out measures to control, suppress, and eradicate outbreaks of forest insect pests and tree diseases on approximately 5 million acres of State, private and federal forest lands.

AGENCY OBJECTIVES:

In meeting the above goals, the Board of Forestry during 1969 assigned to the State Forester the fire protection responsibilities formerly assigned to the Northern Montana Forestry Association. This adds 1,200,000

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acres to the Foresters' direct protection responsibilities. The Board of Forestry assigned to the State Forester the protection responsibilities of the Blackfoot Forest Protective Association, 1,500,000 acres, effective July 1, 1971. In addition, cooperative agreements for forest land protection have been signed with 17 counties east of the Continental Divide. These agreements provide for the State to assist the counties with the equipment and training to fight forest fires and to provide assistance with trained firefighters and more equipment in emergency situations. These counties add 1,842,000 acres to the State Forester's direct protection responsibilities.

Timber cutting takes place on the State Forest Lands at the rate of about 35 million board feet per year which returns approximately \$1,400,000 per year to the several school funds.

Technical forestry assistance is provided to approximately 500 private landowners each year.

One million tree seedlings are produced each year at the State Nursery for windbreak, shelterbelt, and forest plantings.

An average of 850 Hazard Reduction Agreements are made with timber operators each year. Although private landowners do the bulk of the hazard reduction work, State crews are employed for this purpose, also.

The ban on the use of certain pesticides has brought the forest pest control programs almost to a standstill. The U.S. Forest Service and others are experimenting with new products. It is hoped that control measures can resume soon to control this problem, expecially spruce budworm and larch casebearer infestations.



Priority Description

Program

- 1 Installation of an IBM 1050 tele-processing OPERATIONS
 unit by which hazard reduction information
 can be directly processed by the computer in Helena. (The State
 Forestry Department was the second State Agency to install such a
 unit).
- 2 The Misscula Central Warehouse State-wide OPERATIONS fire fighting cache was expanded to support a 150 man temporary fire fighting organization to meet emergency situations.

Priority

Description

Program

During the fiscal year ending June 30, 1971, FCREST MANAGEMENT (Timber Management) the State Forester sold nearly 22MM board feet of timber from State lands valued at \$559,000. This was a reduction of approximately 7MM board feet over the previous year with receipts for the school fund down by \$250,000. These decreases reflect the poor lumber market and the increases in time required to lay out our sales to meet aesthetic and environmental requirements.

For fiscal year 1971, see Appendix A-1 for "Sawtimber Cut from State Lands"; Appendix A-2 for "Christmas Trees Cut by Counties"; Appendix A-3 for "Permanent Rights-of-Way Approved by the State Board of Land Commissioners as Recommended by the State Forester"; Appendix A-1, for "State Forest Land Use Authorizations"; and Appendix A-5 for "Distribution of Income from State Forest Lands."

1

FOREST MANAGEMENT (Cooperative Forest Management)

Through the Cooperative Forest Management program, 776 forest landowners were provided management assistance on 54,778 acres of privately owned forest lands, and 108 operators in 10 industries were given assistance. More than 1.5 million acres were added to the State Forester's Fire Protection Program. For detailed report, see Appendix A-6.

1

FOREST MANAGEMENT (Forest Tree Nursery)

Tree Nursery productions and income increased slightly over the previous six years with the increase coming in stock used by



farmers and ranchers in windbarrier and windbreak plantings. A total of 1,390,000 tree seedlings were sold. Sales were made to 917 farmers and ranchers, and to forest owners for 10 large forest plantings. Sales were made in each of 56 counties. (For detailed information see Appendix A-7 and A-8).

2

(Forest Tree Nursery)

Twenty acres of new ground was added to the production area of the nursery which will permit proper rest and rotation for producing higher quality nursery stock in the future.

1

(Forest Products Utilization)

During fiscal year 1970, the latest figures available,

Montana's wood products industry produced \$250 million worth of

products with an annual payroll of \$69 million. The State Forester's

Forest Products Utilization program served as a communications

media by conducting 18 educational programs, demonstrations and tours,

9 radio programs and exhibits, provided assistance to 85 forest

products operators, and 37 industrial development projects. 93 requests

were received, all of which were completed for technical forestry

assistance.

1

FOREST MANAGEMENT (Rural Area Development)

Completed, with the assistance of the Extension Service,
Montana Woodland Council, and the Aural Development Committee, a
Manual "Opportunities for Improving Montana's Forest Resources", a
guideline for use by county committees to inventory county forest
resources, consider all possible combinations of forest resource



elements, such as timber, grazing, soil, water, wildlife, recreation, and put together a development plan for orderly use of the forests as a natural renewable resource. Much interest developed quickly in Fergus County as a pilot project.

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FOREST MANAGEMENT (Forest Insects and Disease)

A Forest Insect and Disease Supervisor was added to the staff. A manual outlining a program on responsibilities of the State Forester for use by Department personnel was completed, training schools were conducted, cooperative programs with other forest land managing agencies were developed, and assistance was provided in making timber sales to control insect and disease outbreaks.

FOREST MANAGEMENT (Law Enforcement)

The Office of State Forester operates under guidance provided by State statutes. Over the years, the maze of federal programs and federal laws, along with the many State laws which affect the operations of State Forestry programs both on State-owned lands and cooperatively the privately owned forest lands, brought about the need for legal assistance. An individual trained in both forestry and law was required. This position provides legal assistance to the State Forester, trains and directs State Forestry personnel in law enforcement, and guides the Department's Safety Program.



Priority

Description

Program

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FOREST AND RANGE FIRE PROTECTION (1970 Fire Report)

During the fire season 433 forest fires were controlled, with the area burned held to 6,404 acres. In number of fires, 1970 ranked second, and in area burned ranked second in the last ten years. (See Appendix A-9 for detailed information).

FOREST AND RANGE FIRE PROTECTION (Blackfoot Forest Protective Association)

Following the request of the Elackfoot Forest Protective
Association in the Missoula Area to be relieved of fire suppression
responsibilities, and by direction of the State Board of Forestry,
the State Forester's organization made ready to assume fire responsibilities
on an additional one and one-half million acres of forest land on
July 1, 1971.

FOREST AND RANGE FIRE PROTECTION
(Rural Fire Protection)

Under the new rural fire program, the State Forester during
1970 fiscal year, worked out cooperative fire control programs with
17 counties following a pilot program with Meagher County. This
program provides fire fighting units of equipment, fire training
sessions, with the counties assuming operation of the county fire
protection program. The State Forester upon request of the cooperating
counties will supply trained fire suppression experts in times of
emergency.

FOREST AND RANGE FIRE PROTECTION
(Equipment Development Center)

The State Forester's Equipment Development Center now has a

total of 21 excess military vehicles operating with rural fire fighting units. These units either form the nucleus for county fire fighting units or provide a supplement to them.

1

FOREST AND RANGE FIRE PROTECTION
(Other Projects)

An infra-red detector is being tested on one patrol aircraft to pinpoint small fires before they become visible to lookouts, etc., cuts down on suppression time and expense.

- 2 A mobile fire headquarters was developed for use on project fires--reduces errors in timekeeping, etc., and provides economy and efficiency in operation.
- 3 A new 530 gallon fiberglass tank was designed and developed to establish a fast, mobile 500 gallon wildland tanker. The tanks can be mounted in tandum on larger trucks to provide a nurse tanker on larger fires.
- A mobile weather station was added to provide up to the minute weather data to firefighters, reducing the risk of injury, etc., to firefighters and reducing total suppression costs by telling the firefighters exactly how a fire will react to given weather patterns. U. S. Weather Bureau personnel man this equipment when it is in use in the field.
- 5 A portable fire simulator was obtained for use in training county firefighters in initial attack strategy, and professional firefighters in attacking project fires.

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FOREST AND RANGE FIRE PROTECTION (Slash Disposal)

The hazard reduction program aims to reduce the fire hazard created by logging slash and debris following logging operations on State and privately owned forest lands. During the year, this program has proceeded as usual with the actual work necessary staying ahead of the work accomplished. Over the years it has been the practice in Western Montana to reduce the fire hazard by burning slash under controlled programs. With increased interest in air pollution we are working for agreement, and a manual of guidelines in order to handle the slash disposal program in conformity with air pollution standards.

The legislature permitted the State Forester to increase slash fees from \$1.00 per thousand board feet to \$2.00 per thousand board feet which will result in a more satisfactory job of disposal on private lands.



Description

Program

1

INSTITUTION FORESTRY WORK (Swan River Youth Forest Camp)

1,480 man-days were spent on forestry projects of one kind or another, mainly in the Swan River State Forest, but with some time spent in the Stillwater State Forest and in the Kalispell-Missoula and Sperry Grade State Forest areas.

The value of projects completed in fiscal year 1971 is estimated to be \$23,350. Among the major accomplishments in the line of work must be counted the control of 7 forest fires, the construction and placement of numerous routed rustic signs for use in all the State Forests and at all State Forest Offices and stations. During the winter months, the boys thinned 25 acres of Larch-Douglasfir, cut 1,000 pieces of posts, poles and fence rails, maintained 61 miles of road and completed major roadside cleanup of ten miles. Numerous other completed projects are listed in the more detailed report.

For detailed report see Appendix A-10 to A-15.



Description

Program

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DEPARTMENT OPERATIONS

The State Forester plans, as suggested in the last Annual Report, to completely implement the State-wide income and expenditure system.

- 2 As provided by the Legislature, a new building in the Missoula Area Complex will be constructed.
- 3 Also, suggested in our last Annual Report, and provided for by the State Legislature, the electronics engineering section will be activated early in the new fiscal year.

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Description

Program

FOREST MANAGEMENT (Timber Management)

The primary recommendation for forest management made last year was to set up a forest technology team consisting of Forest Management Technician, Fire Control Technician, Forest Entomologist, Landscape Architect, Forest Products Utilization Specialist, Soils Scientist, Hydrologist, Forest Information Specialist, and all of our practices dealing with State-owned forest lands. This team will be made available to the Cooperative Forest Management foresters who provide assistance to private landowners in order that lands owned by small private owners may also benefit in such a way as to improve and maintain our natural environment. It was funded as a recommendation of the Governor in the biennial budget request. As of July 1, 1971, it is set up and operating.

FOREST MANAGEMENT
(Forest Products Utilization)

One sammill in Montana produces enough lumber in two weeks to supply annual needs for Montana forest products. The additional rough and planed lumber is shipped to other parts of the nation for remanufacture. Special emphasis must be placed on the use of Montana rough lumber in the local manufacture of wood items to boost local economy rather than permit continued heavy export of raw material.

FOREST MANAGEMENT (Forest Insects and Disease)

Through the Governor's budget request, the Legislature provided money for a forest insect and disease specialist to assist in detection,



reporting procedure, and implementations of forest insect and disease control programs on both State and private lands. This position is filled and is in full operation.

1

FOREST MANAGEMENT (Law Enforcement)

Mounting evidence continually shows the need for initiation and enforcement of improved forest management practices on private forest lands in Montana.

After development by the State Foresters' Forest Technology staff of criteria and standards for properly managing forest lands, the State Forester and the State Board of Forestry plan to assume leadership, utilizing agencies interested in land management, to develop proposed forest practices applicable to Montana.

1

FOREST MANAGEMENT (Cooperative Forest Management Program)

Expansion requested by the Governor and provided for by the 1971 Legislature makes it possible for the State Forester to maintain representatives in Missoula, Hamilton, Flains, Clearwater, Kalispell, Swan Lake, Olney, Helena, Anaconda, Bozeman, Lewistown and Billings, and a total forestry program can be carried out by an on-the-ground man for the small woodland owners.

Each of these Areas or Units will be available to assist the small owners with woodland management problems, fire protection, nursery tree sales, slash disposal law compliance, and Civil Defense.

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FOREST MANAGEMENT (Forest Tree Nursery)

Last year we asked help to expand the irrigation system in our forest tree nursery. This item was included in the Governor's budget request. We have sunk a new well and provided the irrigation system for an additional 20 acres which will permit us to produce about one million more trees annually.

This increased production will permit more planting on burned-over and non-regenerating state lands.

The nursery will now be able to meet expected increased demand for farm and ranch planting expected from location of Cooperative Forest Management representatives throughout the state.

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Description

Program

FOREST AND RANGE FIRE PROTECTION

Over the past few years the State Forester's major recommendations have been in the area of fire control because Montana has so much land not receiving adequate organized protection while values of the natural resources, including land, continues to increase.

The State Forester presently provides fire protection directly to (a) 2,500,000 acres; through cooperative agreements with other land management and protection agencies, to (b) 1,000,000 acres; and through cooperative programs, to (c) 18,500,000 acres. However, about 30,000,000 acres still are not receiving adequate protection. An example of this is the non-forested watershed and fires on these grasslands such as the one that destroyed Oswego.

FOREST AND RANGE FIRE PROTECTION (Direct Fire Protection)

Due to a combination of circumstances the private forest fire protection agencies, of which three existed in Montana until four years ago, have one by one come to the State Board of Forestry to request that they be relieved of forest fire suppression responsibilities. In 1967, the Anaconda Forest Protection Association turned over its responsibilities to the State Forester, with approval of the State Board of Forestry. This move increased the acreage for which the State Forester was directly responsible from 500,000 acres to 800,000 acres. On July 1, 1970, the State Forester, at the request of the Northern Montana Forestry Association and the State Board of



Forestry, assumed the fire suppression responsibilities of the Northern Montana Forestry Association which increased the acreage for which the State Forester is directly responsible to 1,500,000. By action of the Board of Directors of the Blackfoot Forest Protective Association in December 1969, and at the request of the State Board of Forestry, the State Forester will assume, on July 1, 1971, the fire suppression responsibilities of the Blackfoot Forest Protective Association, an area of 1,000,000 acres, which will bring the State Forester's area of direct fire suppression responsibility to 2,500,000 acres.

On July 1, 1971, when the State Forester assumes the responsibilities of fire protection on the areas now protected by the Hlackfoot Forest Protective Association, the landowners who paid protection assessments directly to the Associations prior to the fire season will pay them through the taxroll media a year late, meaning that a gap of \$95,000 will exist in income for fire protection. Since this situation will only occur once, this amount is included in the 1972 budget request.

It is now obvious that the only successful way to combat forest and range fires, efficiently and effectively within reasonable cost limitations, is through maintenance of a highly mobile, hard hitting fire fighting organization. This requires good radio communications, mobile fire fighting equipment, and well trained crews.

FOREST AND RANGE FIRE PROTECTION (Cooperative Fire Protection)

The Legislature provided the means by which the State Forester



will develop a cooperative program to provide fire protection to forest, wild, and rural lands in Montana. This program is worked on a cooperative basis with the counties. During the past two years, agreements have been made between the State Forester and 17 counties and cover approximately 18,500,000 acres.

Studies show that an additional estimated 30,000,000 acres of forest, wild, and rural lands require protection which can be provided through similar cooperative agreements with the counties. The State Forester would provide fire fighting units made from excess military heavy duty trucks, complements of hand tools, organization experience, fire fighting instruction, and the loan of trained expert advisors in times of emergency.

The Governor's budget request covered expansion of this program by including a 2¢ per acre matching fee in the amount of \$119,775 with which to match county program receipts for protection of State and private lands within the cooperating counties.

FOREST AND RANGE FIRE PROT.
(Hazard Reduction)

Last year we recommended that certain changes be made in the Hazard Reduction Law by the State Legislature. These changes were made:

1

- The slash disposal fee was raised from \$1.00 to \$2.00 per thousand board feet cut to permit a better job of slash disposal.
- (2) Require that reductions and management of slash be in keeping with modern and progressive forest practices and more effective fire control.



(3) Permit the State Forester to discontinue the requirement of cash bonds from certain forest landowners and logging operators meeting specified requirements. No. of the second secon

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Description

Program

INSTITUTION FORESTRY WORK (Swan River Youth Forest Camp)

The responsibility of the State Forester in the Swan River Youth Forest Camp program is to develop and carry out the program, with the assistance to, and development of, the boy of primary importance, and accomplishment of work projects, although important, not the foremost responsibility. The primary responsibility is met with sufficient number of the right kind of foremen who direct the actual work of the boys.

Work programs suggested in the last report have been financed and include for the coming year more road improvement work, more camp and picnic area development, and development work at the State Forester's Sperry Grade and Helena Stations. end of the late to the second of the late to the late

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PROGRAM -- DEPARTMENT OPERATIONS

PROGRAM DESCRIPTION

The Department Operations program includes the formation, management, and direction of the day-to-day administrative duties of the Department. A major goal of this program is to implement automatic data processing management methods to increase efficiency and provide current statistics for management decisions.

PROGRAM OBJECTIVES

Operations job is to formulate plans and programs; develop and enforce policies and standards; select and train personnel; integrate the use of real estate, vehicles, equipment, and manpower; prepare budgets and financial plans; select and make purchases and keep property inventories. Operations is responsible to make and maintain all records and reports required by State Government, cooperating agencies, and personnel of the operations of the Office of State Forester.

PROGRAM--FOREST MANAGEMENT

PROGRAM DESCRIPTION

The goals of the Forest Management are to:

- Provide sustained maximum income for the schools and other trust funds, attainable under the land management plan prepared within the scope of the Multiple-Use Concept.
- Assist private landowners and associated groups in developing, protecting, and enhancing the management and conservation of forest and related resources, and in promoting the stability of forest industries within the State.



- Plan and allow for special uses of State Forest Lands where sufficient revenue or other worthy benefits justify adjustments in primary uses.
- 4. Independently and through cooperation with others, adapt and carry out measures to protect the State and private forest land resources from damage or destruction by insects and disease.
- Improve the range condition of State-owned forest lands to increase use by livestock on areas classified for this primary grazing use.
- 6. To produce and distribute seedling trees and shrubs for forest, windbreak, shelterbelt, wildlife or other conservation plantings on State and privately owned lands within the State.

PROGRAM OBJECTIVES

Cooperative Forest Management provides technical forestry assistance to woodland owners and primary wood processors. Annual requests are anticipated to be 550 for various types of assistance involving such as: forest management plans (30 owners, 9,000 acres); timber sales NAM bd.ft. and contracts, stand improvement, (1,700 acres) tree planting, Christmas tree growing and harvesting.

In addition to assisting private owners as individuals the CFM Foresters are working with the Resource Conservation and Development project in the Bitterroot (and planned in the Beartooth), the Agricultural Conservation Program's forestry practices, many Soil and Water Conservation Districts, Rural Area Development Groups, and others in the conservation of the State's private timber resource.



A Forest Products Utilization Forester is developing a program through which small forest products producers find markets for their products—and manufacturers find sources of supply. Cooperative Forest Management foresters are now stationed at Missoula, Hamilton, Plains, Clearwater, Kalispell, Olney, Swan Lake, Helena, Anaconda, Bozeman, Lewistown, and Billings.

Develop intensive management of State Forest Land to prepare 3,000 acres for the next forest crop including the development of coordinated management of the various resources on all of the 490,000 acres.

PROGRAM -- FOREST AND RANGE FIRE PROTECTION

PROGRAM DESCRIPTION:

The goals of this program are to:

- Independently and in cooperation with others, obtain economical, efficient and acceptable protection from fire damage to the State and privately owned land resources.
- 2. The State Fire Law requires that the forest landowner, public or private, must furnish protection against the starting or existence and to suppress the spread of fire during the forest fire season. The State Forester, as Secretary to the Board of Forestry, is responsible for the administration of the fire laws concerning private lands within the State. Under the State Board of Land Commissioners, the State Forester is responsible for the protection of State-owned lands from forest and range fires.
- Within Montana are approximately 13 million acres of State and privately owned forest lands. The State Forester coordinates



the efforts of private, state and federal fire control agencies for the protection of this land.

- 4. The State Forester is presently assisting counties in establishing adequate fire control organizations. This assistance includes fire suppression training, fire prevention and planning for tools and equipment. A State-wide fire plan is being developed which includes fire emergencies under civil defense.
- 5. The reduction of hazardous fuels left after logging is part of the fire protection program. The State Slash Law requires that anyone who cuts timber on private lands must notify the State Forester in advance of cutting and making an agreement with the State, setting forth how his logging slash will be disposed of.

PROGRAM OBJECTIVES:

Forest fire protection formerly handled by the Northern Montana Forestry Association and the Blackfoot Forest Protective Association involving 2,700,000 acres have been assigned to the State Forester. Protection responsibility for the latter Association will be effective July 1, 1971.

Under the cooperative fire control agreements with the various counties, the objective is to obtain protection on an additional 1,800,000 acres of forest and related range lands during 1972 and 3,800,000 acres during 1973. These agreements provide for the State Forester to assist the counties in the protection of State-owned lands in the development of county fire plans, provide training, furnish fire suppression leadership and supply material and financial support for major fire situations.

Under the hazard reduction aspects of this program, it is anticipated that slash from 350 million board feet of logging will be involved.



Additional objectives in this and related programs will be to:

- Work toward complete utilization of the tree in harvest operations so as to reduce fuel hazards.
- Perfect techniques and procedures of fuel reduction, through burning, that minimize air pollution.

PROGRAM -- INSTITUTION FORESTRY WORK

PROGRAM DESCRIPTION

The Youth Forest Camp, under the direction of the State Board of
Institutions, has been constructed on the Swan River State Forest. It is
designed to accommodate 50 youths. This site was selected because an
almost unlimited amount of work, such as timber stand improvement, tree
thinning, tree planting, trail construction, road and trail maintenance
and campground cleanup--exists through which the inmates may constructively
be employed in useful work. The goals are to rehabilitate juvenile
delinquents through a program of work experience and to improve the State
Forest Lands and other capital property under the charge of the State
Forester. The State Forester, in cooperation with the Superintendent of
the Youth Camp, develops and carries out the work program.

PROGRAM OBJECTIVES

Clients of the Youth Forest Camp receive on-the-job training in the use of forestry tools such as chainsaws, axes, shovels, pulaskis, tree planting tools and power and hand woodworking tools. They also receive fire suppression training, first aid training and carpentry training.

These clients thin timber, plant trees, build picnic tables and fireplaces, make forest directional signs, construct trails, suppress fires, clear roads and maintenance chores to buildings and grounds. Last year their accomplishments

included building 20 picnic tables and 5 outhouses, hand splitting shingles for several buildings, 40 acres of thinning, 75,000 tree seedlings planted, suppression action on 16 fires. This training, plus the work experience, better enables the client to do productive work and support himself once he is released from custody.

Program	1970-71	1969-70	Increase (Decrease)	
Operations Forest Management Forest & Range Fire Prot. Institution Forestry Work	139,965 385,123 968,948 42,862	139,452 342,099 744,883 38,829	513 43,024 *1 224,065 *2 4,033	
Total	1,536,898	1,265,263	271,635	

- Increase Cooperative Forest Management Program to provide expanded technical forestry assistance to the private forest landowners of the State.
- The taking over of the Northern Montana Forestry Association fire responsibilities along with the expanded fire program in eastern Montana resulted in a larger fire program.



Program	1970-71	Personal Services	Operating Expense	Capital	Grants & Benefits
Operations Forest Management Forest & Range Fire Prot. Institution Forestry Work	139,965 385,163 968,948 42,862	107,471 306,619 309,955 35,799	32,386 57,118 189,140 3,330	108 21,176 112,482 3,733	- 0 - 210 357,371 - 0 -
Total	1,536,898	759,844	281,974	187,499	357,581

SOURCE OF FUNDING

General Fund	\$	692,964
Earmarked Revenue Fund: Timber Stand Improvement Slash & Brush Account Nursery		41,962 213,674 35,087
Federal & Private Revenue Fund Clarke-McNary Account Cooperative Forest Management		285,429 87,367
Federal & Private Grant Clearance Fire Protection		177,496
Bond Proceeds & Insurance Clearance Fund		2,919
	\$1	,536,898

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APPENDICES



SAWTIMBER CUT FROM STATE FOREST LAND

FISCAL YEAR 1971

WHITE BARK	WHITE	PONDEROSA PINE	LARCH	DOUGLAS- FIR	SPRUCE	LODGEPOLE PINE	CEDAR	WHITE FIR	TOT AL GREEN	TOTAL
		97,400							97,400	
14,460	489,710	2,080	1,638,260	1,778,990	7,372,640	500,090	4,270	1,195,700	13,043,350**	359,680
670.36 cords pulpwood										
				54,200	7,500	2,700			64,400	
		193,650	64,290	1,750,110		11,050		3,660	2,022,760	122,690
	139,530	48,970	894,430	448,340	34,690	207,960	198,350	259,310	2,237,360**	277,180
	-37,772		475,390	1,112,740	108,880	. 340		10,670	2,201,570	19,280
			-	10,080				.040	19,180	
		0,040	1,20	,						
67 cords pulpwood		180,595	148,290	718,401	.820	.370		2,560	1,051,036	6,960
194.53 cords pulpwoo	od									
				23,904	16,200	11,259				
		1,410		2,090		1,670			5,170	
	5.1,30	15,510	22,434	48,916	.980	7,600	3,390	38,980	143,240	
-	2,42-	-		15,569					109,501	
14,460	634,670			5,963,340	7,541,710	743,039	206,010	1,510,920	21,046,330	785 ,7 90
	PINE 14,460 670.36 cords pulpwood 67 cords pulpwood 194.53 cords pulpwood	14,460 489,710 670.36 cords pulpwood 139,530 67 cords pulpwood 194.53 cords pulpwood 5,430	PINE PINE PINE 97,400 14,460 489,710 2,080 670.36 cords pulpwood 139,530 48,970 493,550 8,340 67 cords pulpwood 180,595 194.53 cords pulpwood 1,410 5,430 15,510 5,93,932	PINE PINE PINE 97,400 14,460 489,710 2,080 1,638,260 670.36 cords pulpwood 139,530 48,970 894,430 493,550 475,390 8,340 .720 67 cords pulpwood 180,595 148,290 194.53 cords pulpwood 1,410 5,430 15,510 22,434 93,932	PINE PINE	######################################	######################################	######################################	######################################	SHITE BARK PINE P

**Includes 47;150 BF Cottonwood 5,780 BF Birch

Total volume green and dry 21,832,120 BF - 931.89 cords pulp



F. Y. 1971

CHRISTMAS TREES CUT BY COUNTIES

COUNTY	NO. OF PERMITS	NO. BAL	OF ES	UNIT AVERAGE PRICE	STUMPAGE
FLATHEAD	27	7,207	16/24	\$0.83	\$ 5,964.02
LEWIS & CLARK	1	12	20/24	0.70	8.98
LINCOLN	17	5,980	2/24	0.77	4,595.46
RAVALLI	14	463	14/24	0.76	350.00
SANDERS	2	31.1	18/24	0.91	282.33
TOTALS	51	13,975	22/24		\$11,200.79

BOUGH PERMITS

Flathead County - 1 permit - 1 ton - \$7.00 (Boughs)



PERMANENT RIGHTS-OF-WAY APPROVED BY THE STATE BOARD OF LAND COMMISSIONERS AS RECCHMENDED BY THE STATE FORESTER

JULY 1, 1970 - JUNE 30, 1971

PURPOSE	NUMBER GRANTED	ACREAGE	LAND VALUE	INGROUTH TIMBER	TIMBER VALUE
ROADS AND HIGHWAYS IRRIGATION WATER LINE	9	41.090 .090	\$776.48	\$718.50	\$4,800.21
TOTALS	10	41.180	\$777.38	\$718.50	\$4,800.21

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STATE FOREST LAND USE AUTHORIZATIONS

# of Land Use Authorizations	Use	Rental
369	Cabin Sites	\$ 13,735.00
233	Residences	8,830.00
332	Grazing	12,982.31
17	Cutting Hay	505.37
6	Agriculture	136.00
1	Ski Runs	25.00
2	School Houses	No charge
5	Tourist Camps and Stores	295.00
6	Sawmill Sites & Trailers	465.00
4	Public Campgrounds	50.00
1	Restaurant, Service Station	110.00
15	Beacon Light, Access Lookout for Access Fire Station, Television Distributing Cable, Relay Station and Maintenance Radio	141.00
3	Rifle Ranges	140.00
14	Recreation Summer Camps, Church Development	rea 250.00
4	Use of Water, Irrigation Reservoir, Etc.	36.60
19	Maintenance Building County Equipment, Ground Oil Mix Stockpile, Powder Cache, Boat Landing, Construction and Maintenance Parking Lot, Hunting Lodge, Dump Sites and Education Site, Leaching Pond	կկ2.00
27	Cooperative Grazing	732.50
1,048		\$38,875.78

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DISTRIBUTION OF INCOME FROM STATE FOREST LANDS

Fiscal Year	Montana State College	Montana State College Morrill	Deaf and Blind	Industrial School	E. Mont. Normal School	School of Mines	University	Common School	Normal School	Total
INCOME FUND	S *								A #21 12	# 25 OCB 13
1971	\$ 406.83	\$8,436.41	\$ 1,484.80	\$ 2,059.93	\$534.47	\$ 4,523.70	\$159.08	\$ 16,910.44	\$ 534.41	\$ 35,058.13
PERMANENT F	runds **					000 50		\$255 Old 57	\$3.919.26	\$502,263.33
1971	\$1,810.51	\$2,425.46	\$28,536.58	\$38,749.25		\$70,880.70		Ψ))),7410)	Ψ3,7=7	
CAPITOL BUI	ILDING FUNDS	***								\$ 72,452.90
1971			•••••		•••••	•••••	Total fise	cal year 1971		

^{*} INCOME FUNDS: 95% allocated to school and other State institutions: 5% of these credited to PERMANENT FUNDS.

^{**} PERMANENT FUNDS: Interest only on these funds expendable.

^{***} CAPITOL BUILDING FUNDS: 100% expendable upon deposit.

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COOPERATIVE FOREST MANAGEMENT REPORT July 1, 1970 - June 30, 1971 OFFICE OF MONTANA STATE FORESTER

Woodland Owners assisted	776
Area Involved (acres)	54,778
Management Plans Prepared	13
Area Involved (acres)	4,026
Timber Marked for Sale (million board feet)	1,280
Other Assists Given Small Woodland Owners	225
	224
Information Activities	108
Forest Products Operators Assisted	100
Forest Industry Development Assists	
Products Harvested with Marketing Assistance (dollars)	15,173
Area of Timber Stand Improvement (acres)	2,391
Area Planted, Private Lands (acres)	92
Area Managed for Special Products (acres)	709
Area Managed for Commercial Recreation (acres)	30
Area Placed Under Fire Protection (acres)	1,517,605
Area Placed Under Pest Protection (acres)	72
Area Placed Under Pest Protection (acres)	243
Area Placed Under Erosion Protection (acres)	2,212
Products Harvested, Area, Acres	
Products Harvested, Sawtimber (thousand board feet)	7,445
Products Harvested, Small Wood Products (cords)	10
Products Harvested, Special (dollars)	97,200



1971 Tree Distribution Report

Species	Age Class	Montana Landowners	Montana Non-Prog	State, Indust Indian Agns	Total in State	Out-of-State Non-Program	Total Sold
Honeysuckle	2-0	11,550	100	950	12,600		12,600
Lilac	2-0	27,100	350	500	27,950		27,950
Sandcherry	2-0	6,650			6,650		6,650
Purple Willow	R.C.	4,750		700	5,450	1,000	6,450
Siberian Crabapple	2-0	13,550	300	950	14,800		14,800
Golden Willow	R.C.	25.850		1,150	27,000		27,000
Cottonwood (Robusta)	R.C.	18,900		50	18,950		18,950
Caragana	3-0	295,400	9,400	6,000	310,800		310,800
American Elm	2-0	7,900	100	550	8,550		8,550
Green Ash	2-0	12,600		1,000	13,600		13,600
Russian Olive	1-0	46.450	850	2,200	49,500		49,500
Siberian Elm	2-0	52.150	300	950	53,400		53,400
Ponderosa pine (Missoula)	3-0	6,950		3,100	10,050		10,050
Ponderosa pine (Twin Creek)	3-0			12,500	12,500		12,500
Ponderosa pine (East)	3-0	16,350		1,375	17,725		17,725
Ponderosa pine (Missoula)	2-0	2,000		54,500	56,500		56,500
Ponderosa pine (Tarkio)	2-0			18,750	18,750		18,750
Ponderosa pine (Compbest)	2-0			278,575	278,575		278,575
Ponderosa pine (East)	2-0			25,000	25,000		25,000
Douglas fir (Huson)	3-0	16,650		16,100	32,750		32,750
Douglas fir (Swan-Woodard)	2-0			56,375	56,375		56,375
Colo. Blue Spruce	3-0	17,150		675	17,825		17,825
Juniper	3-0	5,850	200	175	6,225		6,225
Scotch pine	3-0	9,200		600	9,800		9,800
Scotch pine	2-0	98,900		100	99,000		99,000
Engelmann spruce (Flathead)	3-0	3,000		49,000	52,000		52,000
Engelmann spruce (McCabe)	2-0			92,475	92,475		92,475
Engelmann spruce (Flathead)	2-0			20,000	20,000		20,000
Grand fir	2-0	2,000			2,000		2,000
Larch	3-0			800	800		800
Lodgepole pine	2-0			31,900	31,900		31,900
TOTALS		700,900	11,600	677,000	1,389,500	1,000	1,390,500

Number of Orders:

917 - Landowners; 10 - Forest Plantings; 7 - Montana (Non-program); 1 - Out-of-State; 5 - cancelled; Total 940



1971 Montana Farm Tree Sales by Counties

County	No. of Trees	County	No. of Trees
Beaverhead	3,250	Madison	5,600
Big Horn	11,300	Meagher	3,400
Blaine	13,375	Mineral	200
Broadwater	1,500	Missoula	11,600
Carbon	8,475	Musselshell	750
Carter	11,275	Park	8,675
Cascade	36,275	Petroleum	200
Chouteau	17,150	Phillips	8,925
Custer	2,825	Pondera	4,975
Daniels	24,450	Powder River	3,100
Dawson	2,575	Powell	1,250
Deer Lodge	1,250	Prairie	8,575
Fallon	16,900	Ravalli	15,400
Fergus	23,625	Richland	6,475
Flathead	64,825	Roosevelt	55,750
Gallatin	32,625	Rosebud	3,850
Garfield	1,350	Sanders	28,125
Glacier	9,300	Sheridan	23,125
Golden Valley	3,950	Silver Bow	5,550
Granite	475	Stillwater	2,100
Hill	29,675	Sweet Grass	5,550
Jefferson	4,025	Teton	7,600
Judith Basin	14,725	Toole	52,300
Lake	8,000	Treasure	500
Lewis & Clark	6,350	Valley	12,400
Liberty	29,975	Wheatland	4,650
Lincoln	14,500	Wibaux	8,350
McCone	15,450	Yellowstone	2,475
		TOTAL	700,900

Top 10 Counties

ı.	Flathead	64,825
2.	Roosevelt	55,750
3.	Toole	52,300
4.	Cascade	36,275
5.	Gallatin	32,625
6.	Liberty	29,975
7.	Hill	29,675
8.	Sanders	28,125
9.	Daniels	24,450
LO.	Fergus	23.625

Other 1971 Sales

Surplus s				Agencies state	12,600
Total of	all 197	71 sale	s		1.390.500

AREA PROTECTED, NUMBER OF FIRES, AND AREA BURNED, BY RECOGNIZED AGENCIES PARTICIPATING IN MONTANA'S CM2 FIRE CONTROL PROGRAM

Ten Year Period 1961 - 1970

Year	Acres Protected	Number of Fires	Ranking in Last Decade	Acres Burned	Ranking in Last Decade
1961	6,915,000	397	6	10,976	1
1962	6,915,000	346	7	2,222	6
1963	6,915,000	408	3	1,737	7
1964	6,915,000	104	9	4,104	5
1965	4,774,000*	76	10	680	10
1966	4,806,364	404	4	4,332	14
1967	6,247,767	483	1	1,111	9
1968	6,285,331	300	8	4,363	3
1969	6,747,426	399	5	1,716	8
1970	7,917,685	433	2	6,404	2 52%

Average 1961-1970: 335 fires 3,764 acres

^{*} The lower figures for 1965 and 1966 are due to withdrawal of protection by the U.S. Forest Service on lands outside the National Forest boundaries.



SEMI-ANNUAL ACCOMPLISHMENT REPORT SWAN RIVER YOUTH FOREST CAMP WORK PROGRAM

Period July 1, 1970 to December 31, 1970 lst Half of FY 1971

Project Title	Mandays this Period	Other Quantities Produced this Period	Estimated Value Received
General Training Fire Control Training	- 79	20 Fire Fighters Trained 6 Hot Shot FF trained	
Other Forestry Training Prevention & Suppression	1,1,		
Fire Suppression: Clerical Crew	39 116	7 fires	
Other Miscellaneous Assistance	23	Brush Disposal Burning See Part 3 for details	
Maintenance of Tools & Equip. Campground Maintenance	36 9	125 tools (for others)	\$ 500 150
Landscaping Youth Camp	91		150
Landscaping Station Grounds Cone Collection	70		25
Section Line Reblazing			
Posts, Poles & Rails Cedar Shakes	37	225 Products Produced	300
	72	Only bolts for 50 squares	3.00
Road Maintenance Tool Boxes	15	48 Miles of Road Worked	120
Maintenance of Sta. Bldgs.	117		200
Campground Toilets	55	12 Completed @ \$100 each	300 1,200
Bulletin Boards	-	12 ompiesed & ploo each	1,200
Campground Fireplaces	_		
Picnic Tables	2	6 installed @ \$125. ea.	750
Pickup Boxes	11	4 Completed @ \$50 ea.	200
Fire Prevention Poster Boards	_	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Small Signs	122	750 Completed @ \$3 ea.	2,150
General Carpenter Shop Work			
TOTAL This Part	939		\$ 5,845

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Semi-Annual Accomplishment Report Swan River Youth Forest Camp Work Program
Page 2 of 3 Completed Projects

Page 2 of 3 Completed Projects Period July 1, 1970 to December 31, 1970

1st Half FY 1971

Project Title	Mandays this Period	Mandays Previous Period	Total Mandays for Project	Estimated Value Received	Other Quantities Completed this period
Tree Planting in Block 14 (Sec. 12, T24-R17V)	74	95	169	\$2,000	20,000 spruce - 60 acres
Stillwater Sewer	9	15	24	144	
Youth Camp Bulletin Boards	11	1	12	120	40 bulletin boards @ \$3 each
Wooden Pulaski and Axe Gauges	3	-	3	210	
Nursery Saw Dust Rack	2	-	2	75	
Kalispell Truck Bod	20	-	20	100	
Swan Fire Danger Signs	3		3	300	1 sign
TOTAL	122			\$2,949	

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Semi-Annual Accomplishment Report Swan River Youth Forest Camp Work Program
Page 3 of 3 Completed Projects
Period July 1, 1970 to December 31, 1970 lst Half FY 1971

Project Title	Mandays this Period	Other Quantit	ties Produced	
Fire Training Center Landscaping - Trailer Court Waterpipeline Ditch - Trailer Court Sperry Grade Grounds Thinning Sec. 22, T23-RL7 Intercom at Swan Station	203 190 34 6 122 (14)	(\$1,200) 24 Acres thinned Buried Intercom wires for future hookup at all Sta- buildings.		
TOTALS Incomplete Projects	555	(\$1,200)		
TOTALS Complete Projects	122		\$2,949	
TOTALS Reoccurring Projects	939		11,225	
	1,616	(\$1,200)	\$14,174	



SEMI-ANNUAL ACCOMPLISHMENT REPORT SWAN RIVER YOUTH FOREST CAMP WORK PROGRAM

Period January 1, 1971 to June 30, 1971

2nd Half of FY 1971

Project Title	Mandays this Period	Other Quantities Produced this Period	Estimated Value Received
General Training First Aid Training	- 31	19 Red Cross Cards Issued	
First Aid Training Fire Control Training	19	16 Fire Fighters Trained	
Other Forestry Training	17	To tite tighters trained	
Prevention & Presuppression:			
Fire Suppression:			
Clerical Crew	76		
Lumber Stacking	72	Stacked 140,000 BD FT. Lumber	
Maintenance of Tools & Equip.	9	30 Tools (for others)	\$ 120
Beautification - Swan Highway	20	10 Miles of Roadside Cleaned	200
Campground Maintenance	2	3 Campgrounds Maintained	20
Landscaping Youth Camp	27	-	270
Landscaping Station Grounds	-		
Cedar Shakes	102	70 Squares @ 30 each	2,100
Section Line Reblazing	9	1 Miles of Line Worked	90
Posts, Poles & Rails	178	1,000 Products Produced	750
Road Maintenance	18	61 Miles of Road Worked	180
Tool Boxes	-		7 200
Maintenance of Sta. Bldgs.	130		1,300
Campground Toilets Bulletin Boards	-		
Campground Fireplaces	_		
Picnic Tables	34	18 Completed @ \$150 each	2,700
Pickup Boxes	1	1 Completed @ \$25 each	25
Fire Prevention Poster Boards	9	200 Completed @ \$3.00 each	600
Small Signs	136	552 Completed @ \$10 & \$20 each	9,000
General Carpenter Shop Work			
TOTAL This Part	873		\$ 17,355



Semi-Annual Accomplishment Report Swan River Youth Forest Camp Work Program Page 2 of 3 Completed Projects
Period January 1, 1971 to June 30, 1971 2nd Half

2nd Half of FY 1971 Mandays Mandays Total Estimated Other

Project Title	this Period	Previous Period	Mandays for Project	Value Received	Other Quantities Completed this Period
Sound Proof Teletype Box 2 Storage Shelves for	2		2	\$ 30.00	
Missoula Warehouse	5		5	700.00	
19 Stands for School of Blind	8		5 8	190.00	
4 Large Area Signs	18		18	800.00	
Agency Work Desk & Coord.	5		5	150.00	
Corner Desk	1		1	100.00	
2 Tank Cradles for Fire Trucks	6		6	600.00	
10 Fire Protection Unit Signs	45		45	2,000.00	
Large Swinging Gate	37		37	300.00	
3 Standard Fire Danger Signs	19		19	1,200.00	
Remodel Fire HQ Trailer	11		11	600.00	
10 Fire Flashlight Carrying Boxes	5		5	200.00	
Provided 3 Ponderosa Pine trees to School of Blind, Braille Trail	6		6	100.00	Transplanted Ponderosa Pine
TOTAL	168		168	\$6,970.00	

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Semi-Annual Accomplishment Report Swan River Youth Forest Camp Work Program Page 3 of 3 Completed Projects
Period January 1, 1971 to June 30, 1971 2nd Half of 1 2nd Half of FY 1971

Project Title	Mandays this Period	Other Quantities Produced this Period	Estimated Value Received
Athletic Field Fire Training Center Thinning S31, T21,-R17 Thinning S22, T23-R17 Rustic Furniture for Youth	26 83 166 23 25	16.1 Acres thinned 8.h Acres thinned	\$ 100 225 640 320 100
Forest Camp Remodel 10 x 50 Trailer House Partially Burned	55		200
Work Bench for Entomologist Landscaping - Trailer Court	6 57		1400 220
TOTAL	Min.		\$2,205

MONTANA CONSTITUTIONAL CONVENTION